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ical laboratory of the McMaster University,
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ALFRED TINGLE
LABORATORY OF THE CHIH LI BUREAU AND
THE IMPERIAL CHINESE PEI YANG MINT,
TIENTSIN, April 11, 1909

SOCIETIES AND ACADEMIES

THE OHIO ACADEMY OF SCIENCE

THE eighteenth annual meeting of the academy was held at Denison University, Granville, O., on November 26, 27 and 28, the president of the society, Professor Frank Carney, presiding. On Thursday evening a reception was held at the residence of President and Mrs. Emory W. Hunt, of the University, where a most enjoyable evening was passed by the considerable number of members present. Accommodations for members had been generously made by the university authorities, who had placed the dormitories at the disposal of the society. The sessions were held in Barney Memorial Hall.

The address of the president on "The Raised Beaches of the Berea, Cleveland and Euclid Quadrangles" occurred at 1:30 P.M. Friday, while in the evening, at 7:30, Professor R. S. Tarr, of Cornell University, discussed "The Glaciers of Mount St. Elias and Vicinity," giving an account of his recent trip, which was illustrated by a large number of interesting lantern slides.

A discussion of much practical importance was that on "The Preservation and Development of the Natural Resources of Ohio," the geological side of which was presented by Professor J. A. Bownocker, the forestry side by Professor W. L. Lazenby and the biological side by Professor Herbert Osborn.

The complete program of the meeting was as follows:

"Notes on *Spondylomorom quaternarium* Ehrb.," by M. E. Stickney.

"The Pteridophyte Flora of Ohio," by J. H. Schaffner.

"Injury to Trees by the Season's Drouth," by W. R. Lazenby.

"Snails Collected at Cedar Point, O., during July, 1908," by S. R. Williams and J. K. Breitenbecher.

"The Making of a Naturalist's Directory," by F. J. Hillig.

"The Occurrence of a New Species of Land Planarian in Ohio, with Notes on the Common Species, *Rhynchodemus sylvaticus* Leidy," by L. B. Walton.

"The Behavior of the Opossum (*Didelphys virginiana*)," by G. E. Coghill.

"Differentiation of the General Cutaneous and Visceral Ganglia in *Ameiurus*," by F. L. Landacre.

"Some Aspects of Amitosis in *Synchytrium*," by R. F. Griggs.

"Direction of Flow of Encephalic Fluid in *Amia calva* L.," by Chas. Brookover.

"Recent Evaporation Investigations," by J. Warren Smith.

"Adaptation in a Desert Lichen Flora," by Bruce Fink.

"Notes on the Ohio Flora," by J. H. Schaffner.

"The Laboratory Method for Beginning Students," by Maximilian Braam.

"Protective Encystment in *Phagocata gracilis*," by L. D. Peaslee.

"Cell Division in the Pollen Mother Cells of *Anthemis cotula* L.," by M. E. Stickney.

"Mitosis in *Opalina*," by M. M. Metcalf.

"A Preliminary Report on the Nuclear Divisions in the Pollen Mother Cell of *Convallaria majalis* L.," by L. W. Sauer.

"Is Synzesis an Artifact?" by J. H. Schaffner.

"A Preliminary Note on the Chondrocranium of *Eumeces*," by E. L. Rice. (Slides.)

"Notes on the Growth of the Western Catalpa (*Catalpa speciosa*)," by W. R. Lazenby.

"Faulty Specimens for Nature Study, and how Good Ones may be Prepared," by Chas. Drury.

"Cancer in Mice (*Mus musculus*)," by E. F. McCampbell.

"Relation of Rainfall to Crop Yield," by J. Warren Smith.

"Removal of the Showy Parts of Flowers as affecting Fruit and Seed Produced," by A. H. McCray.

"The Coals of the Monongahela Formations in Ohio," by J. A. Bownocker.

"Fresh Light on the Chronology of the Glacial Epoch in North America," by G. F. Wright. (Slides.)

"Glacial Erosion in the Canadian Selkirks," by L. G. Westgate. (Slides.)

"Some Effects of Glacial Erosion in the Alps," by N. M. Fenneman.

"The Raised Beaches of Lake Huron," by W. M. Gregory.

"Rock Terraces along Streams in the Vicinity of Columbus, O.," by G. D. Hubbard.

"Ecologic Notes from Beechwood Camp," by Bruce Fink.

"The Systematic Position of *Apathus elatus*," by A. H. McCray.

"Observations on the Tick, *Bryobia pretensis* Garman," by S. R. Williams.

"Occurrence of *Paragonimus westermanni* near Cincinnati, O.," by H. M. Benedict.

"Localization of the Excretory Function in *Amœba proteus*," by M. M. Metcalf and R. A. Budington.

"Evidence pointing toward a Sexual Reproduction in *Euglena*," by L. B. Walton.

"The Discomycetes of Oxford, O.," by Bruce Fink and Freda M. Detmers.

"Observations on Ohio Species of *Disonychra*," by L. L. Scott.

"Observations on Tube Making in *Tubifex*," by Cora M. Box.

"Venation of Leaves from Old and Young Plants," by H. M. Benedict.

"Some Noteworthy Species of Plants in Ohio," by O. E. Jennings.

"The Waverly Formations of East Central Kentucky," by W. C. Morse and A. F. Foerste.

"Valley Drift at St. Louisville, O.," by Howard Clark. (Slides.)

"Well Records in Licking County, O.," by Lewis Thomas.

"The Age of the Licking Narrows at Black Hand, O.," by K. F. Mather.

"Post-Glacial Erosion of Plum Creek, Oberlin, O.," by G. F. Wright.

"Glacial Deposits Southwest of Wilkins Run, O.," by Madge Mossman.

"The Teaching of Historical Geology," by L. G. Westgate.

"Preglacial Channels in the Little Miami Valley," by G. F. Wright.

"The Major Subdivisions of the Lower Silurian Strata in Ohio, with Particular Reference to the Richmond Formation recently Mapped by the Ohio Geological Survey," by A. F. Foerste and W. C. Morse.

"The Value of Geology as an Educational Discipline," by L. G. Westgate.

"A New Anthracnose of Cereals and Grasses," by A. D. Selby and T. F. Manus.

"The Reconstruction Method as Applied to Hollow Organs," by E. L. Rice.

Demonstrations

Cytological technique, by M. E. Stickney.

Charts illustrating the reaction of *Diemyctylus* embryos to tactile stimuli, by G. E. Coghill.

Slide showing emergence of the gametes (?) from the small spores arising from the repeated division of an "encysted" *Euglena*, by L. B. Walton.

The "larval" form of an interesting pauropod, *Eurypauropus spinosus* Ryder, by L. B. Walton.

Reports which were adopted were made by various committees, including that on the new constitution and by-laws. This was ordered printed in the *Proceedings* of the academy.

The society adopted resolutions expressing its sense of loss in the deaths of three members since the last annual meeting, William Ashbrook Kellerman, professor of botany at Ohio State University, Hon. Joseph Outhwaite and John J. Janney. The life of Professor Kellerman was sacrificed to science, death resulting from a tropical fever while on a collecting expedition in Guatemala, Central America. He was one of the charter members of the society and had served it as president in 1897, while rarely an annual meeting was held in which his interest was not manifested through his attendance and participation in the program. Both Mr. Outhwaite and Mr. Janney, who were also residents of Columbus, had at various times signified their interest in the affairs of the academy. Mr. Janney died at the advanced age of ninety-six years.

Resolutions were also adopted expressing the appreciation of the society for the courtesies extended by the faculty and others at Denison University, and to members of the local committee, of which Professor George F. McKibben was chairman, for their services in the interest of the academy, and furthermore thanking Mr. Emerson McMillin, of New York, for the continuation of his interest in the welfare of science. The society then adjourned.

The following officers were elected for the coming year:

President—J. H. Schaffner.

Vice-Presidents—L. G. Westgate and S. R. Williams.

Secretary—L. B. Walton.

Treasurer—J. S. Hine.

Librarian—W. C. Mills.

Executive Committee—*Ex officio*: J. H. Schaffner, Jas. S. Hine and L. B. Walton; elective: Chas. Brookover and J. Warren Smith.

Board of Trustees—W. R. Lazenby, chairman, term expires 1909; Frank Carney, term expires 1910; E. L. Rice, term expires 1911.

Publication Committee—J. C. Hambleton, term expires 1909; E. L. Rice, chairman, term expires 1910; Bruce Fink, term expires 1911.

L. B. WALTON,
Secretary